

WHAT IS CLAIMED IS:

1. An apparatus for system decoder, comprising:  
a packet data processing unit for extracting a payload from a plurality of inputted packet data,  
a packet loss detection unit for detecting sequence number of packet data not arrived yet and of packet data with transmission error and for outputting a unique word for error detection instead of payload of the packet data not arrived yet and of the packet data with transmission error corresponding to the detected sequence number, and  
a media data reconstruction unit for rearranging the payload and the unique word in such order as to be decoded by an application decoder.
2. An apparatus for system decoder according to claim 1, wherein said unique word is a data string not included in the specification of the application decoder and to be judged as an error by the application decoder.
3. An apparatus for system decoder according to claim 1, wherein said unique word is a data string determined beforehand as a data for error indication data between the application decoder and the system decoder.

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4. An apparatus for system decoder according to claim 1, wherein there is provided an error indication output unit for outputting error indication data of the same size as the media data outputted from said media data reconstruction unit according to of an input from said packet loss detection unit.

5. An apparatus for system decoder according to claim 1, wherein said packet loss detection unit detects payload type of the packet at the same time when detecting sequence number of packet data not arrived yet and of packet data with transmission error and outputs unique word different for each type of media decoder determined by the payload type.

6. An apparatus for system decoder according to claim 1, wherein said packet loss detection unit detects payload type of the packet at the same time when detecting sequence number of packet data not arrived yet and of packet data with transmission error, and said error indication output unit outputs error indication data different for each type of media decoder determined by the payload type.

7. An apparatus for system decoder, comprising:  
a packet data processing unit for extracting up a payload from a plurality of inputted packet data,

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a retransmission judgment unit for performing retransmission judgment as to whether packet data not arrived yet and packet data with transmission error are to be retransmitted or not and for outputting result of judgment,

a packet loss detection unit for:

detecting sequence number of the packet data not arrived yet and of the packet data with transmission error,

outputting the sequence number to said retransmission judgment unit, and

outputting a unique word for error detection instead of the payload of the packet data not arrived yet and of the packet data with transmission error from the result of judgment of said retransmission judgment unit, and

a media data reconstruction unit for rearranging said payload and said unique word in such order as to be decoded by the application decoder.

8. An apparatus for system decoder according to claim 7, wherein said retransmission judgment unit judges whether it is necessary or not to retransmit the packet data not arrived yet and the packet data with transmission error by using an information relating the processing status at the application decoder.

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9. An apparatus for system decoder according to claim 7, wherein said retransmission judgment unit judges whether it is necessary or not to retransmit the packet data not arrived yet and the packet data with transmission error based on the importance of the packet data not arrived yet and the packet data with transmission error.

10. A method for correcting packet data, comprising the steps of:

extracting a payload from a plurality of inputted packet data,

detecting sequence number of packet data not arrived yet and of packet data with transmission error,

outputting a unique word instead of the payload of the packet not arrived yet and of the packet with transmission error,

generating a data rearranged said payload and said unique word in such order as to be decoded by the application decoder,

detecting the unique word from said rearranged data signal to thereby correct the unique word, and

correcting said rearranged data so that compliant to the specification of said application decoder.

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11. A method for correcting packet data according to claim 10, wherein said correction is performed by correcting means including byte-align processing.

12. A method for correcting packet data according to claim 10, wherein processing to change information of coding type contained in data of coding block is included in the correction of data in case said rearranged data is a video data generated by coding algorithm of block unit.

13. A method for correcting packet data according to claim 10, wherein processing to change time-stamp information contained in the data of a frame image is included in the correction of data in case said rearranged data is a video data.

14. A method for correcting packet data according to claim 10, wherein processing to change coding block to a block with no coding data and to change a flag indicating whether or not there is coding data relating to said block is include in the correction of data in case said rearranged data is a video data generated by coding algorithm of block unit.

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15. A method for correcting packet data according to claim 10, wherein processing to change block position information contained in a header part of video packet is included in the correction of data in case said rearranged data is a video data generated by coding algorithm of block unit to handle a plurality of coding blocks as a video packet.

16. A method for correcting packet data according to claim 10, wherein processing to change number of coding blocks to be processed in the video packet is included in the correction of data in case said rearranged data is a video data generated by coding algorithm of block unit to handle a plurality of coding block as a video packet.

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